



Attorney Docket No: BTGI-004/02US 020038-2016

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Nicholas John DORAN *et al.* Confirmation No.: 1140  
Serial No.: 10/713,037 Examiner: David J. Lee  
Filed: November 17, 2003 Art Unit: 2613  
For: **OPTICAL FIBRE COMMUNICATION SYSTEM**

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INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08 for the above-identified patent application.

- ☐ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☒ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
  - ☒ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
  - ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. \_\_\_ in the amount of \$\_\_\_ for the total fee is attached.
- ☒ A return receipt postcard is also enclosed.
- ☒ Please charge \$180.00 to Deposit Account No. 50-1283 for the total fee. This paper is being submitted in duplicate.


The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-1283.

Dated: September 7, 2007

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Respectfully submitted,  
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By:

  
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Christopher R. Hutter  
Reg. No. 41,087



Attorney Docket No: BTGI-004/02US 020038-2016

PATENT

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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97(c)**

In accordance with the duty of disclosure set forth in 37 CFR §1.56, Applicants hereby submit the following information in conformance with 37 CFR §§1.97 and 1.98.

- ☒ Pursuant to 37 CFR §1.98, a copy of each non-US patent document cited in the attached Form PTO/SB/08 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 CFR §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. \_\_\_\_ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☒ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 CFR §1.98.
- ☐ Publication(s) \_\_\_\_ listed on the attached Form PTO/SB/08 were cited in a foreign search or examination report corresponding to \_\_\_\_ application serial no. \_\_\_\_ and mailed on \_\_\_\_.
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_\_\_. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).

09/10/2007 HAHMED1 00000047 501283 10713037  
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- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_\_\_. English language publication \_\_\_\_\_ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) \_\_\_\_\_ for which an English translation is not available.
- ☒ Enclosed is a partial English translation of Japanese publication No. JP 9-162805 cited in the attached Form PTO/SB/08.
- ☐ Enclosed is a copy of pending patent Application Serial No. \_\_\_\_\_.

This Information Disclosure Statement is filed after the period specified in 37 CFR § 1.97(b), but before the mailing of a final action under 37 CFR § 1.113; a notice of allowance under 37 CFR § 1.311; or an action that otherwise closes prosecution in this application.

In accordance with 37 CFR § 1.97(c):

- ☒ Fee under 37 CFR § 1.17(p) in the amount of \$180.00 is hereby authorized to be charged to Deposit Account No. 50-1283; or
- ☐ Statement as specified in 37 CFR § 1.97(e):
  - ☐ Each item of information contained in the Information Disclosure Statement cited herein was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
  - ☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, having made a reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing date of the Information Disclosure Statement.

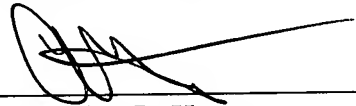
It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08 to the undersigned.

Dated: September 7, 2007

COOLEY GODWARD KRONISH LLP  
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Respectfully submitted,  
**COOLEY GODWARD KRONISH LLP**

By:

  
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Christopher R. Hutter  
Reg. No. 41,087



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PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/713,037
		Filing Date	November 17, 2003
		First Named Inventor	Nicholas John Doran
		Group Art Unit	2613
Examiner Name	David J. Lee		
Sheet	2 of 3	Attorney Docket Number	BTGI-004/02US 020038-2016

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	19.	JP 9-162805	06-20-1997	Kokusai Denshin Denwa Co. Ltd.		✓ (partial)
	20.	EP 0 500 357 B1	08-23-1995	NEC Corporation		
	21.	EP 0 531 210 B1	03-04-1998	Alcatel		
	22.	EP 1 000 474 B1	05-12-2004	BTG International Limited		
	23.	GB 2277651	11-02-1994	British Tech. Group		
	24.	GB 2 268 018 A	12-22-1993	Kokusai Denshin Denwa Co. Ltd.		
	25.	JP 03-214123	09-19-1991	Nippon Telgr. & Teleph. Corp. Co. Ltd.		✓
	26.	JP 04-335619	11-24-1992	Nippon Telgr. & Teleph. Corp. Co. Ltd.		✓
	27.	JP 04-304432	10-27-1992	Nippon Telgr. & Teleph. Corp. Co. Ltd.		✓
	28.	JP 05-152645	06-18-1993	Hitachi Ltd. & Hitachi Cable Ltd.		✓
	29.	JP 06-018943	01-28-1994	Nippon Telgr. & Teleph. Corp. Co. Ltd.		
	30.	JP 06-110094	04-22-1994	Kokusai Denshin Denwa Co. Ltd.		✓
	31.	JP 06-258675	09-16-1994	Alcatel NV		✓
	32.	JP 07-183848	07-21-1995	FR Telecom		✓
	33.	JP 8-286219	11-01-1996	Nippon Telgr. & Teleph. Corp. Co. Ltd.		✓
	34.	JP 08-146472	06-07-1996	Nippon Telgr. & Teleph. Corp. Co. Ltd.		✓
	35.	JP 11-512536	10-26-1999			
	36.	WO 85/00483 A1	01-31-1985	Nippon Telgr. & Teleph. Corp. Co. Ltd.		
	37.	WO 97/20403	06-05-1997	British Tech. Group Ltd.		
	38.	WO 99/07088	02-11-1999	BTG International Ltd.		

OTHER – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	39.	AGRAWAL, G. P., "Group Velocity Dispersion," Nonlinear Fiber Optics, Second Edition, (1995), Chapter 3. pp. 60-63, 144-145, 150-151, 164-165.	
	40.	ARAHIRA S. et al., "Transform-Limited Optical Short-Pulse Generation at High Repetition Rate Over 40 GHz from a Monolithic Passive Mode-Locked Laser Diode," IEEE Photonics Technology Letters, December 1993, Vol. 5. No. 12, pp. 1362-1365.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Unique citation designation number (optional). <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
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		Filing Date	November 17, 2003
		First Named Inventor	Nicholas John Doran
		Group Art Unit	2613
		Examiner Name	David J. Lee
Sheet	3 of 3	Attorney Docket Number	BTGI-004/02US 020038-2016

OTHER – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	41.	ATEIH A. K. et al., "Towards All-Optical Ultra-High-Speed Transmission Systems," Electrical and Computer Engineering, 1995, Canadian Conference on Montreal, Quebec, Canada 5-8, Sept. 1995, New York, US, IEEE, Vol. 1, Sept. 5, 1995, pp. 90-92.	
	42.	ATKINSON, D., "Increased Amplifier Spacing in a Soliton System with Quantum-Well Saturable Absorbers and Spectral Filtering," Optics Letters, Oct. 1, 1994, Vol. 19, No. 19, pp. 1514-1516.	
	43.	HAELTERMAN, M. et al., "Generation of Ultrahigh Repetition Rate Soliton Trains in Fibre Ring," Electronics Letters, IEE Stevenage, GB, Jan. 7, 1993, Vol. 29, No. 1, pp. 119-121.	
	44.	HAUS, H.A. et al., "Stretched-Pulse Additive Pulse Mode-Locking in Fiber Ring Lasers: Theory and Experiment," IEEE Journal of Quantum Electronics, March 1995, Vol. 31, No. 3, pp. 591-598.	
	45.	HOFFMAN, P., "DWDM Long Haul Network Deployment For The Verizon GNI Nationwide Network," Optics Society of America, 2005, pp. 1-3.	
	46.	OKAMOTO, K., "Fundamentals of Optical Waveguides," Academic Press, USA, 1992, pp. 173-192.	
	47.	Partial European Search Report for Application No. EP 04 01 9570.	
	48.	PASCHOTTA, R., "Saturable Absorbers", Encyclopedia of Laser Physics and Technology [online], February 26, 2006 [retrieved on March 3, 2006]. Retrieved from the Internet: <URL: <a href="http://www.rp-photonics.com/saturable_absorbers.html">www.rp-photonics.com/saturable_absorbers.html</a> >, pp. 1-3.	
	49.	SUZUKI, M. et al, "Reduction of Gordon-Haus Timing Jitter by Periodic Dispersion Compensation in Soliton Transmission," Electronic Letters, 1995, Vol. 31, pp. 1-7 and Figure 1-3.	
	50.	TAGA H. et al., "Multi-Thousand Kilometer Optical Soliton Data Transmission Experiments at 5 GB/s using an Electroabsorption Modulator Pulse Generator", Journal of Lightwave Technology, IEEE, New York, US, Vol. 12, No. 2, Feb. 1994, pp. 231-235.	

Examiner Signature	Date Considered
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